

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A  
FILING UNDER 35 U.S.C. 371**

186700/US

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

**10/540356**  
Not Yet Assigned

INTERNATIONAL APPLICATION NO.

**PCT/CN2003/001062**

INTERNATIONAL FILING DATE

**15 December 2003 (15.12.2003)**

PRIORITY DATE CLAIMED

**27 December 2002 (27.12.2002)**

TITLE OF INVENTION

**A KIND OF MULTIFUNCTIONAL ACTIVE WATER PREPARING DEVICE**

APPLICANT(S) FOR DO/EO/US

**ZHIWEI HOU, GUOCAI XUJIANG, ZHENGKE JIANG**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This express request to begin national examination procedures (35 U.S.C. 371(f). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not transmitted by the International Bureau).
  - b. ☐ had been communicated by the International Bureau.
  - c. ☐ have not been made, however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11 to 20. below concern document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included
13. ☒ A preliminary amendment.
14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4)
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:

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| U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.5)<br><b>10/540356</b>   |  | INTERNATIONAL APPLICATION NO.<br>PCT/CN2003/001062 |                                  | ATTORNEY'S DOCKET NUMBER<br>186700/US |              |   |            |          |         |   |            |  |  |
|---|--|--|----------------------------------|---------------------------------------|--------------|---|------------|----------|---------|---|------------|--|--|
| 21. The following fees have been submitted:<br><input checked="" type="checkbox"/> a) Basic national fee ..... \$300.00   |  |  |                                  | CALCULATIONS                          | PTO USE ONLY |   |            |          |         |   |            |  |  |
|   |  |  |                                  | \$ 300.00                             |              |   |            |          |         |   |            |  |  |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)--<br>4)..... \$100.00<br>All other situations..... \$200.00   |  |  |                                  |                                       |              |   |            |          |         |   |            |  |  |
|   |  |  |                                  | \$ 200.00                             |              |   |            |          |         |   |            |  |  |
| 23. <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100.00<br>International Search Report prepared and provided to the Office ..... \$400.00<br>All other situations ..... \$500.00  |  |  |                                  |                                       |              |   |            |          |         |   |            |  |  |
|   |  |  |                                  |                                       |              |   |            |          |         |   |            |  |  |
| TOTAL OF 21, 22 and 23 =  |  |  |                                  | \$ 500.00                             |              |   |            |          |         |   |            |  |  |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">Total Sheets</th> <th style="width:15%;">Extra Sheets</th> <th style="width:35%;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="width:15%;">RATE</th> </tr> <tr> <td>12 - 100</td> <td>0 /50 =</td> <td>0</td> <td>x \$250.00</td> </tr> </table>   |  |  |                                  | Total Sheets                          | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       | 12 - 100 | 0 /50 = | 0 | x \$250.00 |  |  |
|   |  |  |                                  | Total Sheets                          | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |          |         |   |            |  |  |
|   |  |  |                                  | 12 - 100                              | 0 /50 =      | 0   | x \$250.00 |          |         |   |            |  |  |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  |  | \$130.00   |                                  |                                       |              |   |            |          |         |   |            |  |  |
| CLAIMS  |  | NUMBER FILED                                       | NUMBER EXTRA                     | RATE                                  |              |   |            |          |         |   |            |  |  |
| Total claims  |  | 4 -20 =  | 0                                | x \$50.00                             | \$0          |   |            |          |         |   |            |  |  |
| Independent claims  |  | 1 -3 =   | 0                                | x \$200.00                            | \$0          |   |            |          |         |   |            |  |  |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |  |  |                                  | +                                     | \$360.00     |   |            |          |         |   |            |  |  |
| TOTAL OF ABOVE CALCULATIONS =   |  |  |                                  | \$1130.00                             |              |   |            |          |         |   |            |  |  |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |  |  |                                  | \$565.00                              |              |   |            |          |         |   |            |  |  |
| SUBTOTAL =  |  |  |                                  | \$565.00                              |              |   |            |          |         |   |            |  |  |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).   |  |  |                                  | \$0                                   |              |   |            |          |         |   |            |  |  |
| TOTAL NATIONAL FEE =  |  |  |                                  | \$565.00                              |              |   |            |          |         |   |            |  |  |
| Fee for recording the enclose assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |  |  |                                  | \$0                                   |              |   |            |          |         |   |            |  |  |
| TOTAL FEES ENCLOSED =   |  |  |                                  | \$565.00                              |              |   |            |          |         |   |            |  |  |
|   |  |  |                                  | Amount to be refunded:                | \$           |   |            |          |         |   |            |  |  |
|   |  |  |                                  | charged:                              | \$           |   |            |          |         |   |            |  |  |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of <b>\$565.00</b> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. <b>04-1420</b> in the amount of \$_____ to cover the above fees.<br/>A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <b>04-1420</b> A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038</p> <p><b>NOTE: Where an appropriate time limit under 37 CFR 1.494 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b></p> |  |  |                                  |                                       |              |   |            |          |         |   |            |  |  |
| SEND ALL CORRESPONDENCE TO: <b>CUSTOMER NUMBER 25763</b>  |  |  |                                  |                                       |              |   |            |          |         |   |            |  |  |
| Min (Amy) S. Xu<br>Dorsey & Whitney LLP<br>Intellectual Property Department<br>Suite 1500<br>50 South Sixth Street<br>Minneapolis, MN 55402-1498  |  |  | Signature _____                  |                                       |              |   |            |          |         |   |            |  |  |
|   |  |  | Name <u>Min (Amy) S. Xu</u>      |                                       |              |   |            |          |         |   |            |  |  |
|   |  |  | Min (Amy) S. Xu, Reg. No. 39,536 |                                       |              |   |            |          |         |   |            |  |  |
|   |  |  | Registration Number _____        |                                       |              |   |            |          |         |   |            |  |  |

10/540356

Attorney's Packet No. 186700/US

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JC20 Rec'd PCT/PTO 23 JUN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Zhiwei Hou

Appln. No.: Not Yet Assigned

Filed: Herewith

For: A KIND OF MULTIFUNCTIONAL  
ACTIVE WATER PREPARING DEVICE

Confirmation No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

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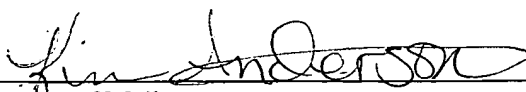
Sir:

The undersigned hereby certifies that the following documents:

1. Certificate of Mailing by Express Mail;
2. Transmt'l Letter to the U.S. DO/EO/US Concerning a Filing under 35 U.S.C. § 371 (2pgs);
3. Check in the amount of \$565.00 filing fee;
4. Application Data Sheet (2 pgs);
5. Specification (8 pgs) and drawings (4 pgs) total of 8 pgs; English translation;
6. Copy of Int'l Pub. No. WO 2004/058648 A1 w/Int'l Search Report as filed in Chinese;
7. Preliminary Amendment (3 pgs.);
8. Return Postcard.

relating to the above application, were deposited as "Express Mail," Mailing Label No. EV 535043901 US with the United States Postal Service, addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 2nd day of June, 2005.

Kim Anderson  
( Mailer)

  
\_\_\_\_\_  
Signature of Mailer  
DORSEY & WHITNEY LLP  
USPTO Customer No. 2576